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the Eye, by G. M. Rautian, 8 pp.

Full translation.

RUSSIAN. per, Dok Ak Nauk SSSR, Vol 12812, No. 1, 1991,
pp 65-68.

CIA/SSD/X-066

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Scientific - Physics

OTS/DEK

3522

The Submicroscopic Structure of Alni Alloy (60.85% Ni, 25% Ni, 14% Al, 0.15% Cu), by N. N. Buinov, and R. M. Leriman.

Full translation.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXIX, No 1, 1951, pp 69-72.

sci - Chem

AEC Tr 1308

Quantitative Evaluation of the Photographic Effect
in Multilayer Color Photographic Materials, by Yu.
H. Gorokhovskiy, D. K. Balabukha, T. M. Levenberg,
8 pp.

RUSSIAN, thrice-uo per. Dok Ak Nauk SSSR, Vol LXXIX,
No 1, USSR, 1951, pp 73-76.

CIA/FDD/X-1146

See - Physics

Dec 1953 GTS

7571

Structure of Iron-Nickel-Aluminum Alloys for
Permanent Magnets, by Su. Shakov

RUSSIAN, per, Dok Ak Nauk SSSR, Vol 79, 1951,
No 1, pp 77-80.

Butcher Order No 3052
Price \$4.90

Scientific + Metallurgy

1384

The Theory of Slow Heterogeneous Reactions in a
Moving Liquid by V. G. Levich, N. N. Meiman.

Full translation.

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1951, pp 97-100.

AEC Tr 1376

Scientific - Physics, Moving liquid

Sec 52 CTS/DEX

Hydraulic Properties of Hydrothermically Treated Clay
and Lime Materials, by P. P. Budnikov,

RUSSIAN, ~~EN~~ per, Dok.Akad.Nauk SSSR, Vol LXXIX, No 1,
1951, pp 109-112.

Insdoc T.829
Sci Tr Center

USSR

Scientific - ~~Engineering~~
Minerals/metals

Nov 55
CTS/DEX

28,258

Indian Nat Sci Documentation Ctr
Nat. Physical Lab of India
Hillside Rd.
New Delhi-12, India

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RUSSIAN, Proc. Dokl. Akad. nauk SSSR, Vol. 79, 1951,
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Sci -
July 1967

333,967

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K. I.

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[1963] 7p (figs omitted) 6refs

Order from OTS, SLA, or ETC \$1.10 TT-63-20524

Trans. of [Akademiya Nauk SSSR, Doklady] 1951,
v. 79, no. 2, p. 225-228.

DESCRIPTORS: X-ray absorption analysis, Atoms,
Energy, *Absorption, Electron transition, Ger-
manium, Gases, Molecules.

(Physics--Spectroscopy, TT, v. 11, no. 3)

TT-63-20524

I. Vainshtein, E. E.
II. Barinskii, R. L.
III. Narbutt, K. I.

TT-64-20171

Office of Technical Services

Sound of Large Amplitude in He II, by I. M. Khalatnikov.

Full translation.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXXIX,
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AEC Tr 1179

Sci - Physics

Also Sci Mus 11/13/51
52/0351

Apr 52 CTS

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9,500 Å to 12,000 Å., by V. T. Lukashenya, V. I.
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1951, pp 241-244.

Amer Met Soc T-167 RU

100- NLL M. 2946

Sci

Jan 62

A. B. C. I. I. J. 1487
(9207961)

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Equality of Volume, by A. F. Kapustinskiy.

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1951, pp 249-252.

MLL M. 4524

Sci - Phys

Apr 62

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Leskovich [Ya]. A.
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MORPHOUS MODIFICATIONS OF AMMONIUM
NITRATE. [1961] 7p. 3 refs.
Order from OTS or SLA \$1.10 62-10474

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v. 79 [no. 2] p. 257-260.

DESCRIPTORS: *Ammonium radicals, *Nitrates,
Plasticity, Phase studies, Transformations.

(Physics--Solid State, TT, v. 7, no. 9)

62-10474

I. Leskovich, Ya. A.

Office of Technical Services

Height of the Potential Barrier in the Hydrogen Bonds
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Gragerov.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXIX, No 2,
1951, pp 277-279.

AEC Tr 1514

Scientific - Chemistry, hydrogen, benzoquinhydrone

Brookhaven Nat Lab 24 Mar 1953

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Effect of Surface-Active Substances (Color-Formers)
on the Specific Viscosity of Gelatin Solutions and
Photographic Emulsions, by B. V. Deryagin, S. M. Levl,
V. S. Kol'tsov, 9 pp.

RUSSIAN, three-no per, Dok Ak Nauk SSSR, Vol. LXVII,
No 2, 1951, pp 283-286.

CIA/TCD/Y-1092

Scientific - R Chemistry CAS/ORA

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Contribution to the Problem of Corrosion Fatigue, by
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No 2, 1991, pp 287-288.

Brutcher Tr 3160

Scientific - Minerals/Metals

Price \$2.25

~~SECRET~~

Nov 53 CTS

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New Fast Chemical and Phase Analysis of
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3 pp.

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Sci Tr Center
RT-2214

Scientific - Chemistry
CTS 70/Jul 55

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Resistance in Cotton Plants, by B. A. Rubin, L. M.
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QTD 43 13520

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Scientific - Biology, disease, cotton plants, tanning.

Changes in the & Fine Structure of
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Sci - Min/Met

Mar 62'

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Sci - Chem

Mar 59

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pages 405-6 (FDD copy S 988)

"The Relation Between the Average and Maximum Velocities
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Proj 11348

ST-256

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SR 49-252

(FDD 27159)

Problem of the Elimination of Reflections in Wave
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Rozhdestvenskiy, D. N. Chetayev, 7 pp.

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ences, Reports), Vol LXXIX, No 3, 1971, pp 431-434.

RT-742
AEC Tr 1267

Scientific - Physics

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Tr E181

The Relation Between Lattices of the NiAs and Ni_2In Type and Certain Rhombic Types, by D. S. Beliankin, 8 pp.

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Sci - Chemistry
Sep 57

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Presence of Phenyl Naphthylamine, by A. S. Kus'minsky,
L. L. Shaniin, N. M. Ioshkov, UDC

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXXI, No 3,
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Sci 60-12266

DSIR LIU M.1060

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Sci - Chem

Mar 60

111,131

Mobility of Hydrogen in Aromatic Compounds, by A. I. Shatunskii, E. A. Israelovich, L. N. Vasil'eva, and M. Faivush.

Full translation.

RUSSIAN, no per, Dok Ak Nauk SSSR, Vol LXV, No 3, 1961, pp 479-482.

AEC Tr 1431

USSR

Scientific - Chemistry, hydrogen

Nov 52 CDS/DET

The Ability of the Cells of the Aerial
Part of the Tobacco Plant to Synthesize
Nicotine, by M. F. Mashkovtsev, A. A.
Sirotenko, 6 pp.

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K-H-2233 a

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Sci - Agriculture
Mar 67

(FDD 15674)

Splitting of Porphyrin Rings Under the Effect of Ultrasonic Waves, by I. El'piner, L.A. Blyumenfel'd, S.E. Krasovitskaya, 8 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXXIX, No 3, Moscow, Jul 1951, pp 495-497.

CIA/FDD/U-3957

USSR

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Sci - Physics

Jan 54

Concerning the Peculiarities of the Growth of
the Primary Meristem at Young Inflorescences of
Wheat, by N. A. Ordina, 7 pp.

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SLA 60-16029

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Sci

May 62
Vol 4 No 10

An empirical Equation for the Calculation of the Dissociation Energies of the CH- and CC- Bonds in Molecules of Saturated Hydrocarbons and in Free Aliphatic Radicals, by V. V. Voevodskii

Full Translation

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AEC Tr 1131

Sci - Chem

Feb 52 CTS

Diffraction of Sound Waves on an Uneven Surface. by
L. M. Brekhovskikh.

RUSSIAN, ~~thrice~~ *no rev. Dist. Sci. J. Vol. LXXIX,*
No 4, 1951, pp 585-588.

0197675
Def Sci Info Sv
DRB T.164.R.

Sci. Mon. Sub. 95/1717

Physics

Scientific - ~~Geophysics~~

Fed 55 CTS/DEX

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pages 589-590

"Concerning the Geometrical Meaning of the Conditions
Governing the Existence of Transverse-Electrical and
Transverse-Magnetic Fields in Curvilinear Coordinate
Systems" author: M. L. Levin

11641 ST-256

SR 26 Mar 52

52-7-100-1-7

Spectral Sensitometry of Multilayer Photographic Color
Material, by Yu. M. Gorokhovskiy, O. M. Ponomarenko,
7 pp.

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No 4, 1951, pp 591-593.

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Scientific - Medicine CTS/DEX
Chemistry

5576

Anides of Dialkylphosphonocarboxylic Acids and
Their Derivatives, by Gil'm Kamay, E. I. Shugurova,
5pp.

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No 4, 1951, pp605-608.

Sci Tr Ctr RT-3866

Sci - Chemistry
Aug 56 CTB/dex

37,538

On Radioautographic Determination of Radio-Isotope
Localization in Plants, by V. M. Klechkovskiy,
T. P. Evdokimova, UNCLASSIFIED

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pp 629-632.

USDA

20,170

Scientific - Biology

Dec 1954 CTS

Rubin, B. A., and Volobueva, P.

THE ACTIVITY OF THE POLYPHENOL OXIDASES
OF THE TISSUES OF THE COTTON PLANT AS
RELATED TO THE RESISTANCE OF THE PLANT
TO THE FUNGUS VERTICILLIUM ALBO-ATRUM,
[1962] [6]p. 1 ref.

Order from OTS or SLA \$1.10

63-13583

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1951,
v. 79, no. 4, p. 637-638.

DESCRIPTORS: *Phenols, *Oxidases, Plants (Botany),
Diseases, Tissues (Biology), *Cotton, *Fungus
infections, Actinomyces, Resistance, Enzymes.

The increase in the content of polyphenols which is
observed simultaneously with activation of the enzymes
catalyzing their oxidation is an example of a defensive
reaction which has been developed and intensified in
(Agriculture--Plant Cultivation, TT, v. 9, no. 12)(over)

63-13583

I. Title: Verticillium
albo-atrum

1. Rubin, B. A.

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III. Translations, New York

Office of Technical Services

Pressure Distribution of Lifting Surfaces, by
E. A. Krasil'shchikova, 5 pp.

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Sci Tr Center RT-1097

Scientific - Physics

Jul 54 CTS

16,058

Extension of A. N. Krylov's Method to Polynomial
Matrices, by I. S. Arzhanykh, 4 p.

RUSSIAN, per, Doklady Akademii Nauk, SSSR, No 5,
1951, pp 749-752. 9698548

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Sci- ~~6-171~~
Jan 66

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S. L. Belousov, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXIX, No 5,
1951, pp 763-766.

ATIC F-TS-9620/V

Sci - Astron
Mar 59

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GORDEEV, G. V.

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1951. (8p.)

Oscillations in a Discharge as a Source of Moving
Striations, by A. A. Zaitsev, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol. LXXIX, 1951,
pp 779-81.

AEC Tr 2559

Sci - Physics

460,442

Plasma Oscillations and Striations, by
G. V. Gordeyev, 10 pp, UNCLASSIFIED

RUSSIAN, per, Dok Ak Nauk SSSR, Vol 779, ~~XXXXX~~,
No 5, 1953, pp 771-774.

Sci Tr Center
RT-1668

Morris D. Friedman

Scientific - Medicine Jan 55 CTS

20,550

Release of Electrons and Reflection of Ions From the
Surface of a Metal, by M. A. Eremeev.

Full translation.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXXIX,
No 5, 1951, p 775-777.

AEC Tr 1170

Doc Novo Sootia No 303

Sci - Physics

Apr 52 CTS

The Intermediate State of Superconductors, by E. M. Lifshits, Yu. V. Sharvin.

Full translation.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXXIX, 1951, p 783.-784

SLA 66-16117
AEC Tr 1180

Sci - Physics

Also Sci Mus 11352/1358

Apr 52 CTS

Contribution to the Question of the Synthesis of
Antimony Organic Compounds by the Method of Binary
Diazonium Salts, by O. A. Reutov, O. A. Ptitsyna,
6 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXXIX,
No 5, 1951, pp 819-821.

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SLA-R-789

Scientific - Chemistry

9156

Jan 54 CTS

Bromberg, A.V., Luk'yanovich, V.M., and others.
ELECTRON MICROSCOPIC EXAMINATION OF A
FINE GRAIN STRUCTURE BY ITS DEVELOPMENT.
8 p. 2 refs. MTWL: 560.
Order from OTS or ETC \$1.55 61-17132

Trans. of Akademiya Nauk SSSR (Doklady), 1951,
v. 79, no. 5, p. 827-830.

DESCRIPTORS: *Electron microscopy, *Grains,
Solids, Surfaces, Silver.

61-17132

I. Bromberg, A.V.
II. Luk'yanovich, V.M.
III. MTWL-560
IV. Stichting Moedijk
Toegankelijke Wetenschap-
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Office of Technical Services

Investigation of the Spectra of a Large Chromospheric
Flare on the Sun, by E. R. Mustel', A. B. Severniy.

Thurman
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pp 867-870.

*ATIC

F-75-9633/1

Sci - Astron
Jul 58

Assimilation of Products of Microbial Activity
(Antibiotics) by Roots of Plants, by N. A.
Krasil'nikov.

Full translation.

RUSSIAN, per, Dok Ak Nauk, Vol LXXIX, 11 Aug 1951,
pp 870-882. 511 P444A

USDA Tr

USSR

Jul 53 CTS/DEX

Scientific - Biology

3413

On the Intermediate Transformation of Austenite by
R. I. Entin

RUSSIAN, Dok Ak Nauk SSSR, Vol 79, 1951, No 6,
pp 973-976.

Brutcher Tech Tr No 2839

The Tautomerism and Isomerism of 2-Methyl-1, 3-diketone, by G. Vozag, Ye Eidel, S. Giller, 9 pp. 4

Full translation.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXVI, II 1951,
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CIA/EDD/A-974

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Scientific - Chemistry

GTS/DEK

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Viscosity of Molten Metals, by G. M. Panchenkov, 7 pp.

Full translation.

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Sci Mus Lib No 52/3268

Scientific - Chemistry

27 December 1952

Concerning the Reactivity of Free Alkyl
Radicals, by N. N. Tikhomirova,
V. V. Voevodski

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXIX, 1951,
pp 993-996. *CIA 911 403*

TT-360
AEC Tr 1117

Scientific - Physics

Utilization of Antibiotics in Some Diseases of
Plants, by N. A. Krasil'nikov, R. O. Mirzabekian,
S. Askarova.

Full translation.

RUSSIAN, Dokl Ak Nauk SSSR, Vol. ¹⁷⁹~~VII~~, Aug 1951,
pp 1025-1027. ~~511 2444A~~ 511 2444A

USDA Tr

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Scientific - Biology

Jul 53 CTS/DEX

3424

Change in the Form of Protein Molecules in Urea
Solutions, by A. G. Pasyanskiy, R. S. Chernyak,
4 pp.

Full translation.

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No 6, 1951, pp 1001-1004.

NLE MIA-12
CIA/EDD/X-988

Scientific - Chemistry Aug 53 CFS/DRK

4573

The Problem of the Temperature of Plant
Leaves Under Artificial Illumination, by
A. F. Kleshnin,

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No 6, 1951, pp 1029-1032.

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Jul 58

The Solution of Nonstationary Boundary Problems
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CIA/FDD X-2425

Sci - Physics
May 1957 CTS/dex

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An Investigation of the Maximum Heat Flux During
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Lukomskiy, 6 pp.

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No 1, 1951, pp 53-56.

Sci Trans Center
RT-2691

Scientific - Chemistry
CTS 75/Dec 55

29, 2/3

On the Effect of Angle of Slope on the Temperature
State of the Wall of Steam Generating Tubes at High
Pressures, by M. A. Styrikovich, Z. L. Miropolakiy;
6 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXIII,
No 1, 1951, pp 57-60.

Sci Tr Center

RR-3920

39,166

Sci - Engineering
anlz Sep 56 CTS/dex

Sci Transl. 27/0474

Razuvayev, G. A. and Vasilyevskaya, N. S.
REACTIONS OF CARBON TETRACHLORIDE WITH
ALCOHOLS, tr. by L. J. Goodlet. July 60 [6]p. 6 refs.
AWRE Trans. U. 143; [DSIR LLU] M. 2316.
Order from LC or SLA ml\$1.80, ph\$1.80 61-15459

Trans. of Akademiya Nauk SSSR. Doklady, 1951,
v. 80, no. 1, p. 69-72.

(Chemistry--Physical, TT, v. 5, no. 12)

61-15459

1. Alcohols--Chemical reactions
2. Carbon tetrachloride--Chemical reactions
1. Razuvayev, G. A.
- II. Vasilyevskaya, N. S.
- III. AWRE-U-143
- IV. DSIR LLU M. 2316
- V. Atomic Weapons Research Establishment (Gt. Brit.)

Office of Technical Services

Increasing the Yields of the Cotton Plant by Del
Removal and Inhibition of Shoot Growth During the
Autumnal Period, by Iu. V. Bakits, K. E. Gvcharov.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXIX, 1 Sep 1951,
pp 117-119. 511 P444A

USDA Trans 285

557

USSR

Economic - Agriculture, growth stimulators

Scientific - Biology, growth stimulators, plants

On the Relationship Between Heat Stability of
Protoplasm and Temperature Conditions of Life, by
V. Ya. Alexandrov, 9 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXX, 1952,
pp 149-152.

CIA/TED X-4574

Sci - Biology
Mar 61

11/1, 864

(FDD 13704)

Calculation of steady Two-Dimensional Motion of
Two Streams of Underground Waters With a Free Surface
and With Different Mineral Content, by N. K. Girinskiip,

RUSSIAN, thrice-to per, Dok Ak Nauk SSSR, Vol. LXXX,
No 2, Moscow/Leningrad, 11 Sep 1951, pp 181-184.

CIA/FDD/U-2788

USSR

Scientific - Geophysics

(FDD 27155)

Radiation Resistance of a Dipole Close to a Highly
Conductive Ellipsoid of Revolution, by R. G. Mirmanov,
7 pp.

RUSSIAN, thrice mo per, Dok Ak Nauk SSSR, Vol LXXX,
No 2, Moscow, 1951, pp 189-192.

CIA/FDD/U-7941

33,374

USSR

Sci - Electronics Physics

On the Nonlinear Theory of Electron Plasma Oscillations, by A. I. Akhiezer, G. Ya. Lyubarskii.

Full translation.

RUSSIAN, per, Dokl. Ak. Nauk SSSR, Vol LXXX, No 2, USSR, 1951, pp 193-195.

AEC Tr 1466

RT 2031

Scientific - Electronics, plasma oscillations

Jan 53 CTS/DEX

Akhlezer, A. I. and Lyubarskii, G. Ya.
THÉORIE NON LINÉAIRE DU PLASMA ÉLECTRO-
NIQUE (Nonlinear Theory of Oscillations of Electron
Plasma) tr. by [B. I. de Trazvinski. 28 Nov 61] 101p.
(Russian text included). CEA Trans. no. R 1443 (text in
French).
Order from GTS or SLA 51.10

62-19010

Trans. in French of Akademiya Nauk SSSR. Doklady
1951, v. 80, no. 2, p. 193-195.

A trans. in English is available from SLA as RT-2031.

DESCRIPTORS: *Nonlinear systems, Equations,
Plasma oscillations, Electrons, *Plasma physics.

(Physics--Theoretical, TT, v. 8, no. 3)

62-19010

I. Akhlezer, A. I.
II. Lyubarskii, G. Ya.
III. CEA-tr-R1443
IV. Commissariat à l'Énergie
Atomique (France)

Office of Technical Services

Kondorskit, E.
THE THEORY OF COERCIVITY AND THE MAGNETIC SUSCEPTIBILITY OF FERRO-MAGNETIC POWDERS (DEPENDENCE ON PACKING DENSITY). 6 p.
6 refs. MTWL: 561
Order from OTS or ETC \$1.55 61-17113

Trans. of Akademiya Nauk SSSR. Doklady, 1951,
v. 80, no. 2, p. 197-200.

DESCRIPTORS: *Ferromagnetic Materials, Powder Metallurgy, Magnetic Susceptibility, Theory.

61-17113

- I. Kondorskit, E.
- II. MTWL-561
- III. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur.

Office of Technical Services

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